

APPENDIX I - SUPPLIER QUALITY ASSURANCE REQUIREMENTS

GLOBAL 7500 RUDDER AND ELEVATORS PROGRAM PROGRAM

This Appendix I with the Supplier Quality Assurance Requirements for the Global 7500 Rudder and Elevators Program defines Fokker Aerostructures (Buyer) additional Program Specific Quality Requirements and forms an integral part of the Purchase Order (PO) concluded between Supplier and Buyer.

The contents of this Appendix I is additional to or replacing one or more of the standard Fokker Quality Requirements as provided in Annex B “Supplier Quality Assurance Requirements (standard)”. All terms defined in the Purchase Order shall be applicable to this Appendix I, unless explicitly defined otherwise in this Appendix I.

Supplier shall have systems and methods to assure full compliance to this Appendix I. When products or services applicable to the PO are procured by the Supplier from sub-tier suppliers, the supplier shall flow down the Appendix I requirements as necessary to assure full compliance is achieved.

In case of differences or inconsistencies with texts in the Main Contract, the stipulations in this Appendix I will prevail.

The latest valid version of this document is available on the GKN / Fokker Aerostructures website via: <https://www.gknaerospace.com/en/Utilities/gkn-aerospace-suppliers/fokker/>

APPROVAL

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CHANGE LOG

Date/Issue	Change Reason
13.jan.2023/01	Initial Appendix I - Supplier Quality Assurance Requirements

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01 GENERAL

This Appendix I defines Buyer's additional Program Specific Quality Requirements and forms an integral part of the Purchase Order (PO) concluded between Supplier and Buyer.

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02 SCOPE

Suppliers are required to implement and maintain a quality system that supports each element of the applicable AS9100, AS9120 or ISO 9001 standard, as defined by the supplier's classification and must also address the Company applicable specific requirements provided herein. Supplier's quality management system must be at the latest applicable AS9100, AS9120 or ISO 9001 standard revision and be certified by an accredited Certification/Registration Body (CRB). The quality system, product and parts requirements specified herein are intended to be complementary to all contract requirements, and other requirements which may require compliance by the supplier, including any legal, regulatory or administrative requirements. Direct suppliers are required to use electronic media such as, but not limited to, Conformance and E-source where applicable.

This QRS 4.6 replaces QD 4.6-40 Requirements for Suppliers for Short Brothers plc contracts and has been prepared to address all regulator and customer quality requirements.

Source: QRS 4.6-40 Section 1.0.

03 SUPPLIER CLASSIFICATION

All suppliers entering into contract for the supply of aeronautical products, the testing of, or the performance of controlled processes to such products, as well as the supply of controlled raw material for the manufacturing of aeronautical products must first be approved by the company and classified in accordance to section 4.3. This requirement must be applied in accordance to Appendix A1 and classified as follow:

- Supplier Class A – SUBCONTRACTORS
- Supplier Class B – EQUIPMENT SUPPLIERS
- Supplier Class C – MANUFACTURERS
- Supplier Class D – DISTRIBUTORS
- Supplier Class E – MAINTENANCE ORGANIZATION
- Supplier Class F – STRUCTURAL SUPPLIER
- Supplier Class G – INDIRECT PRODUCT
- Supplier Class H – COMMERCIAL OFF THE SHELF (COTS)
- Supplier Class J – LOGISTICS PROVIDER
- Supplier Class K – BUYER FURNISHED EQUIPMENT (BFE) SUPPLIER

Source: QRS 4.6-40 Section 4.0 & 4.3.

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04 QUALITY MANAGEMENT SYSTEM - APPLICABILITY MATRIX

Additional requirements to AS and ISO by supplier class are listed in the matrix below:

Section	Class A	Class B	Class C	Class D	Class E	Class F	Class G	Class H	Class J
7.1 Documentation Records Requirements	X	X	X	X	X	X	X	X	X
7.2 Supplier Resources Working Within Bombardier	X	X				X			
7.3 Control of Documented Information	X		X			X		X	X
8.1 Configuration Management		X				X			
8.2 Control of Work Transfer	X	X	X		X	X			
8.3 New Product Development	AS REQUIRED BY PROGRAM								
8.4.1 Sources of Supply	X			X		X			
8.5.1 First Article Inspection Report	X	X				X			
8.5.2 Source Inspection	X	X	X		X	X			
8.5.3 Production Part Approval Process (PPAP)	X	X				X			
8.5.4 Validation and Control of Special Processes	X					X			
8.5.5 Identification and Traceability	X	X	X	X	X	X			
8.6.1 Document Required with Shipment	X	X	X	X	X	X			
8.6.2 Certificate of Conformity (C of C)	X	X	X	X		X			X
8.6.3 Authorized Release Certificate		X			X				
8.6.4.1 Regulatory Approvals					X				
8.6.5 Packing Slip	X	X	X	X	X	X	X	X	X
8.6.6 Direct Ship Authorization (DSA)	APPLICABLE UPON REQUEST								
8.6.7 Strip Report		X			X				
8.6.8 Drop shipment	APPLICABLE UPON REQUEST								
8.7.1 Quality Escape	X	X	X	X	X	X			X
8.7.2 MRB Authority	X	X				X			
8.7.3 Items Returned to the Supplier for Repair or Rework	X	X			X	X			
8.7.4 Non-Conformances	X	X	X	X		X			X
9.1 Inspection	X	X	X	X	X	X			
9.2.1 Re-delegation of Inspection Authority	X		X			X			
10.1 Double Inspection	X	X	X	X	X	X			

Source: QRS 4.6-40 Section 4.4 & 4.4.1

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05 SUPPORT - DOCUMENTATION RECORDS REQUIREMENTS

The supplier must maintain Quality records including, but not limited to, Quality and Engineering records/data. The records must be retained for a period of not less than (10) years from completion of purchase order unless otherwise specified in the contract. The supplier must impose this requirement on their sub-tiers. Quality and Engineering records/data must be made available upon request. The records must be maintained in the English language or an accurate translation made from original records created in the supplier's native language.. Source: QRS 4.6-40 Section 7.0 & 7.1.

06 CONTROL OF DOCUMENTED INFORMATION

The supplier must ensure that the technical the revision of specifications (e.g. PSPEC, SMS, SMCM, ASTM, AS, and any other revision controlled documents) used in the manufacturing of aeronautical products are implemented/incorporated within six (6) months from the date the revised specification is published. When the revised standard is not performed within the six months delay, full compliance to the revised standard must be met at its first use.

A record of revision review shall be maintained which includes date of reference document revision, date of incorporation at supplier, brief summary of actions taken to demonstrate the revision review was completed. No documented revision review is required for non-technical revisions. Source: QRS 4.6-40 Section 7.3.

07 CONTROL OF WORK TRANSFER

Suppliers must advise their Contract Authority as well as notify the company Supplier Quality Assurance team 6 months in advance before any transfer of operations (e.g. from one organization facility to another, from the organization to a supplier) and allow sufficient time for the review and approval by the company. The Supplier will present a detailed transfer plan to the Contract Authority addressing as a minimum:

- Description of the new location, with general layout and pictures or floor plan;
- A list of parts involved in the transfer;
- Timeline and plan for each step in the transfer including:
 - Production stop date at the original site;
 - Equipment movement;
 - New location set-up;
 - List of controlled specifications to be performed;
 - Re-calibration, re-qualification of equipment and tooling;
 - Work force training and certification;
 - Last Article Inspection (old location) plan;
 - First Article Inspection Report (F.A.I.R.) plan (in new location);
 - Risk assessment and mitigation plan.

This activity will be at the Supplier's cost. Sufficient necessary stock will be produced to cover the transition period and to avoid any potential impact to the company.

The Supplier approval status will be re-evaluated and additional measures may be requested if the change creates an undue burden to the company. Any additional effort resulting in such re-evaluation will be at the Supplier's cost. Source: QRS 4.6-40 Section 8.2.

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08 IDENTIFICATION AND TRACEABILITY

Each product or article must be individually identified in accordance with the drawings, specifications, contractual requirements, and all applicable requirements.

The product or article identification consists of a technical definition as indicated on the purchase order and the following table:

Additions, Exceptions and Specifics by Supplier Classification	Applicability
If exists: Shelf life expiry date along with the required storage conditions	A, B, C, D, F
Serial number, Lot number or traceability number	A, B, C, D, E, F
If an NCR is associated with MRB acceptance, its number shall be on a tag.	B, E
If an NCR is associated with MRB acceptance, its number shall be on the part.	A, F
Supplier identification	A, B, F
Nomenclature number is not required for raw materials and process materials.	A, C, D, F
All roll formed sections must be stenciled with appropriate part number and lot number along the entire length of part.	C, D
Hazardous Material information is required on paint and chemical containers or other hazardous materials. (SDS or equivalent).	C, D
For kits, container must be identified with "kit number" and with a traceability number.	A, B, C, D, F

Source: QRS 4.6-40 Section 8.5.5.

09 RELEASE OF PRODUCTS AND SERVICES

Document required with shipment

Any pertinent documents related to a Purchase Order, including other contractual requirements (supplier purchase order to sub-tier, sub-tier C of C and test report, inspection report, etc.) must be kept on file and made available upon request as per 7.1.

The supplier must provide (2) copies of the shipping documentation, (1) inside and (1) outside the packaging of each shipment.

Additions, Exceptions and Specifics by Supplier Classification	Applicability
i. Supplier's C of C is not required for new or repaired parts when an Authorized Release Certificate (8.6.3) is supplied.	A, B, D, E, F
ii. Packing Slip	A, B, C, D, E, F, H, K
iii. New or repeated First Article Inspection Report when required per section 8.5.1	A, B, F
iv. Authorization to Ship, form when required (see Note 2.)	A, B, E, F
v. A logbook is required for new engine, APU or battery. (see Note 1)	B, E
vi. Test report from manufacturer or from an approved independent testing laboratory for raw material and hardware is required as applicable in related manufacturing and/or procuring specification.	C, D,
vii. Copy of any applicable NCR with disposition (8.7.4), (see Note 3)	A, B, C, F
viii. Safety Data Sheet (SDS) is required with each shipment of Hazardous Material	C, D
ix. Strip report when required per 8.6.6	B, E
x. New commercial goods proof of purchase	H

Refer to section QD 4.6-40 Section 8.6.1 for notes details.

Source: QRS 4.6-40 Section 8.6.1.

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10 CERTIFICATE OF CONFORMANCE (C OF C)

The supplier must provide a C of C stating the products and/or parts conform to applicable drawings and/or specifications as required by the Contractual (purchase order) requirements.

The C of C must include additional required configuration identification, i.e. Part number, Dash Number, and MOD status to which the delivered product and/or part was manufactured.

Authorized Quality personnel must sign the C of C (Quality stamp and initials are also acceptable).

Electronic signature is acceptable providing the supplier has documented procedures to control the acceptance authority media.

All items listed below are mandatory items to be mentioned on the C of C:

- a) Supplier's name;
- b) Supplier's address (address shown in the applicable source approval authority document, such as the ASL, EMCM, QPL, Drawing, Specification, etc.);
- c) Purchase Order number and revision;
- d) Bombardier engineering or supplier's part number as per P.O. requirements;
- e) Quantity delivered by traceability number (must be exactly as identified on the part);
- f) Technical definition as indicated on the purchase order;
- g) Statement specifying, where applicable, that the products and/or parts meet the flammability requirements of CFR 25.853(a), CFR 25.853(c) or CFR 25.856. (if applicable)

Items required if exist and/or required in purchase order:

- h) Purchase Order item number;
- i) Shelf-life expiry date (See Note);
- j) NCR number raised by supplier;
- k) Serial number.

Additions, Exceptions and Specifics by Supplier Classification	Applicability
i. Unit of measure	B,C,D
ii. Manufacturer's name and address	D
iii. For kits, the C of C must list all part numbers, their respective quantity and part serial numbers where required.	A, B, C, D, E, F
iv. Manufacturer's lot or batch number is not required for non-aerospace catalog items.	H, D

NOTE: For products with a shelf life, unless specified otherwise on the Purchase Order, the 25% rule (75% shelf life remain available) is applicable. When this cannot be achieved, the suppliers will have to use the QAF 4-6.20 Authorized to Ship Request form.

Source: QRS 4.6-40 Section 8.6.2.

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11 PACKING SLIP

The supplier must provide 2 copies of the packing slip, 1 inside and 1 outside the packaging of each shipment. All items, which are listed below, are considered mandatory items. When a portion of the items is absent from the Packing Slip, this will not be considered a non-conformance as long as those items are recorded on additional documentation supplied with the shipment.

- a) "Ship from" address (Supplier's name and address)
- b) "Ship to" address
- c) Purchase Order number
- d) Part number shown on the Purchase Order
- e) Shipment quantity
- f) The Unit of measure as per Purchase Order
- g) All serial numbers or quantity delivered (unit of measure per Purchase Order) by traceability number and if it exists and/or is required by the Purchase Order.
- h) Purchase Order line item number
- i) Number of boxes for the Purchase Order line item
- j) Supplier Top Drawing Number
- k) Weight
- l) Waybill number
- m) Carrier
- n) Advance shipping notice

Source: QRS 4.6-40 Section 8.6.5.

12 CONTROL OF NON-CONFORMING

The supplier must promptly notify to GKN / Fokker Aerostructures, in writing, when a product or article has been released from the supplier and subsequently found not to conform to a Bombardier's product requirement that was applicable when the product was released:

- Purchase Order;
- Condition of Supply;
- Manufacturing data;
- Etc.

In case of nonconforming items, Suppliers dispositions are limited to scrapping the material, rework to drawing, or return to sub-supplier. In all other cases, Supplier shall request permission to GKN / Fokker Aerostructures to submit nonconforming material reports to Fokker for disposition.

All escapes and non-conformances will be managed thru QMS-2010 GKN / Fokker Aerostructures Procedure

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13 PERFORMANCE EVALUATION

Inspection

The supplier is responsible for inspection to make sure that conformance to requirements is met when delivering products or parts.

The company reserves the right to inspect products, parts and/or records at any time and place to verify conformance.

Quality Standard

Suppliers manufacturing products using process specification may refer to quality standard documents to support product conformance validation.

A quality standard defines the quality characteristics of a finished product that do not affect form, fit or function of a product. These characteristics must be complied with in order to consistently meet or exceed customer expectations.

Source: QRS 4.6-40 Sections 9.0, 9.1 & 9.1.1.

Quality Standard

Supplier must take all required actions including but not limited to additional inspection(s) in order to contain any defect at its facility.

Bombardier reserves the right to impose this requirement based on defect type, frequency, and impact to company's operations. The additional inspections deemed necessary will be maintained until such time that confidence is regained in the supplier's Quality Management System ability to provide conformant product and/or services, as determined by the applicable Bombardier Quality department.

Source: QRS 4.6-40 Section 10.0.

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14 APPENDIX A1 - SOURCE OF SUPPLY BOMBARDIER PROGRAM AND DERIVATES

For Bombardier Aviation programs the supplier must comply with QD 4.6-40 Requirements for Suppliers document. The first column contains the type of Article or Service to be procured from the sub-tier. The second column contains acceptable sources of supply. The third column contains the supplier class to whom the requirements are applicable.

Article / Processes	Approved Sources Of Suppliers	Applicability
Controlled Specifications	Controlled specifications processes must be purchased only from suppliers listed in the Approved Supplier Listing on the Supplier Quality Assurance Portal and approved for the required specification. The list of all controlled specifications is available on the Supplier Quality Assurance Portal.	A, F
Other Specifications	Non-controlled specifications do not require specific approval. Supplier Sourcing may select any sub-tier supplier. The selected supplier must comply with all of the applicable requirements from the non-controlled specification.	A, F
Hardware and Catalogue Items	Hardware and catalogue items must be purchased only from manufacturers listed in the Approved Supplier Listing on the Supplier Quality Assurance Portal. Supplier's distributors, if any, do not require approval, provided the distributor purchased from an approved manufacturer. When QPL qualification is required, hardware and catalogue items must only be purchased from a QPL manufacturer. When specified by the QPL, an authorized distributor must be used.	A,D,F
Raw Materials and Process Materials	Raw materials must be purchased only from manufacturers listed on the Bombardier Approved Supplier Listing (ASL) and on the BAEMM-001. Process materials controlled by BAEMM-001 other than manufacturer code 1198 or 1200 must be purchased only from manufacturers listed on both the BAEMM-001 and the Bombardier ASL. It is the material user's responsibility to ensure that the following BAEMM-001. material requirements are met: <ul style="list-style-type: none"> - Purchased from approved manufacturer with applicable purchase conditions; - Monitoring tests at reception are performed at the defined frequency by a laboratory approved to the relevant field(s) of BAERD GEN-018. However, trained and certified Quality personnel may perform visual, dimensional and functional tests (e.g. visual inspection, condition in container, dry time, appearance, colour, viscosity, thickness, distortion test, etc.); - Shelf Life usage and storage conditions. Manufacturers of BAPS Miscellaneous material not controlled by BAEMM 001 do not need to be on the Bombardier ASL. Supplier's distributors, if any, do not require approval, provided the distributor purchased from an approved manufacturer.	A, D,F
Procurement & Source Control Drawing or 'B' Standards	Procurement & Source Control Drawing as well as 'B' Standard parts must be purchased only from suppliers listed in the Engineering data (BM, DSC or B standard) and listed in the Bombardier Approved Supplier Listing on the Supplier Quality Assurance Portal.	A, D, F
Specification Control Drawing	Spec. Control Drawing parts must be purchased only from equipment suppliers listed in the Bombardier Approved Supplier Listing on the Supplier Quality Assurance Portal.	A, F
Fuselage Skins	Suppliers involved in the manufacturing of aircraft skins or aircraft components that include skins must meet the specific quality requirements defined in the following documents as applicable for its product: QD 4.6-50 Fuselage Skin Quality (FSQ) Visual Acceptance Standards; QD 4.6-67 Skin Quality Acceptance Standards for Aluminium-Lithium.	A, C, F

(Go to www.bombardier.com > Aerospace > Suppliers > Current Suppliers > Supplier Quality Assurance Portal > Approved Suppliers Listing).

Source: QRS 4.6-40 Appendix I